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14230 U.S. PTO

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Date of Deposit: April 9, 2004

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Rebecca M. Hale April 9, 2004  
Rebecca M. Hale Date:

15535 U.S. PTO  
10/822303



<b>UTILITY PATENT APPLICATION TRANSMITTAL</b>  <small>(Only for new nonprovisional applications under 37 CFR 1.53(b))</small>	Attorney Docket No. PP20480.019
	First Inventor or Application Identifier: Rino Rappuoli <i>et al.</i>
	Title of Invention: <b>The Severe Acute Respiratory Syndrome Coronavirus</b>
	Express Mail Label No. EL 987 061 190 US

ADDRESS TO: ASSISTANT COMMISSIONER FOR PATENTS  
BOX PATENT APPLICATION  
WASHINGTON, DC 20231

Transmitted herewith for filing in the United States Patent Office is a patent application for:

**THE SEVERE ACUTE RESPIRATORY SYNDROME CORONAVIRUS**

Inventors: Rino Rappuoli, Vega Massignani, Konrad Stadler, Jens Peter Gregersen, David Chien, Jang Han, John Polo, Amy Weiner, Michael Houghton, Hyun Chul Song, Mi-Young Seo, John Donnelly, Hans Dieter Klenk and Nicholas Valiante

- ☒ The Filing Fee has been calculated as shown below:
- ☐ Applicant claims Small Entity Status. See 37 CFR 1.27.

	No. Filed	No. Extra	Small Entity Rate Fee 0	Large Entity Rate Fee 1
BASIC FEE			\$0	\$ 740.00
TOTAL CLAIMS:	120 - 20 =	100	X 9 = \$0	x 18 = \$ 1,800.00
INDEP CLAIMS:	22 - 3 =	19	X 40 = \$0	x 84 = \$ 1,596.00
MULTIPLE DEPENDENT CLAIMS PRESENTED		13	+ 280 = \$0	+ 280.00 = \$ 280.00
*If the difference in Column 1 is less than zero, enter "0" in Column 2.			TOTAL \$	TOTAL \$4,416.00

The Commissioner is hereby authorized to credit overpayments or charge the following fees to Deposit Acct. No. 03-1664.

- ☒ Fees required under 37 CFR 1.16
  - ☒ Fees required under 37 CFR 1.17
  - ☒ A check in the amount of \$ 4,416.00 for the filing fee is enclosed.
  - ☐ The above filing fee will be paid along with Applicant(s) Response to the Notice to File Missing Parts.
- ☒ Specification; Total Pages 640 (Including Claims and Abstracts)
  - ☒ 199 Sheets of Informal Drawing(s) (35 USC 113)

5. ☒ Declaration and Power of Attorney; [Total Pages 6](In Blank)  
 a. ☐ Newly executed (original or copy)  
 b. ☐ Copy from a prior application (37 CFR 1.63(d))  
     *(for continuation/divisional with Box 17 completed)*  
     i. ☐ DELETION OF INVENTOR(S) Signed statement attached deleting  
         inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) & 1.33(b).
6. ☒ Application Data Sheet. See 37 CFR 1.76
7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)  
 a. ☒ Computer Readable Copy (CRF)  
 b. ☒ Specification Sequence Listing on:  
     i. ☒ CD-ROM or CD-R (2 copies); or  
     ii. ☒ Paper  
 c. ☒ Statement verifying identity of above copies

#### ACCOMPANYING APPLICATION PARTS

9. ☐ Assignment Papers (cover sheet & document(s) (including a check for the \$40.00 fee)
10. ☐ 37 CFR 3.73(b) Statement *(when there is an assignee)*; ☐ Power of Attorney
11. ☒ Blanket Petition for Extension of Time and Authorization to Charge/Credit Deposit Account
12. ☐ Information Disclosure Statement (IDS)/PTO-1449;      Copies of IDS Citations
13. ☐ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503) *(Should be specifically itemized)*
15. ☐ Certified Copy of Priority Document(s) *(if foreign priority is claimed)*  
 Foreign Priority is
16. ☐ Request and Certification for Non-publication under 35 U.S.C. 122(b)(2)(B)(i).  
 Applicant must attach form PTO/SB35 or its equivalent.
17. ☐ Request for Early Publication Under 37 CFR § 1.219.
18. **If a CONTINUING APPLICATION, check appropriate box and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CF 1.76:**  
☐ Continuation    ☐ Divisional    ☐ Continuation in Part (CIP)

Prior Application Information: Examiner

Group/Art Unit:

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

#### 19. CORRESPONDENCE ADDRESS

CHIRON CORPORATION – Customer No. 27476  
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 P.O. Box 8097  
 Emeryville, CA 94662-8097

Signature: Rebecca M. Hale  
 Attorney of Record: Rebecca M. Hale  
 Attorney Registration No. 45,680  
 Telephone: (510) 923-3179  
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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:

RINO RAPPUOLI ET AL.

Serial No.: Unassigned                      Group Art Unit:              Unassigned

Filed:              Even Date Herewith              Examiner:              Unassigned

FOR:              THE SEVERE ACUTE RESPIRATORY SYNDROME CORONAVIRUS

**CERTIFICATE OF MAILING VIA EXPRESS MAIL**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Attention: Box Patent Application

Sir:

Express Mail Label No.:      EL 987 061 190 US

Date of Deposit:              April 9, 2004

I hereby certify that the attached Specification (640 pgs.), Utility Patent Application Transmittal (2 pgs.), Application Data Sheet (14 pgs.), Declaration for Utility or Design Patent Application Under 37 CFR §1.63 (unsigned, 6 pgs.), Blanket Petition for Extension of Time and Authorization to Charge/Credit Deposit Account, check no. 8456 in the amount of \$4,416.00 and Postal Receipt Card are being deposited with the United Postal Service "Express-Mail Post Office to Addressee" service under 37 C.F.R. §1.10 on the date indicated above is addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Dated: April 9, 2004

By: Rebecca M. Hale  
Rebecca M. Hale

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Rebecca M. Hale April 9, 2004  
Rebecca M. Hale Date:

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:

RINO RAPPUOLI et al.

Serial No.: Unassigned

Group Art: Unassigned

Filed: Even Date Herewith

Examiner: Unassigned

For: THE SEVERE ACUTE RESPIRATORY SYNDROME CORONAVIRUS

**BLANKET PETITION FOR EXTENSION OF TIME  
AND AUTHORIZATION TO CHARGE/CREDIT DEPOSIT ACCOUNT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

If a paper is untimely filed in the subject application by applicant or his representative and such paper is not accompanied by an effective petition for extension of time, the Commissioner is hereby petitioned under 37 C.F.R. §1.136(a) for the minimum extension of time required to make said paper timely. In the event a petition for extension of time is made under the provisions of this paragraph, the Commissioner is hereby requested to charge any fee required under 37 C.F.R. §1.17(a)-(d) to Deposit Account No. 03-1664.

Respectfully submitted,

Dated: April 9, 2004

By: Rebecca M. Hale  
Attorney: Rebecca M. Hale  
Reg. No. 45,680

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